

# WALL MOUNTED VRF INDOOR UNIT (S SERIES)



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TRUST AIR CONDITIONING EQUIPMENT CO.  
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## Wall Mounted Type (S Type)

1. Features .....	2
2. Specifications .....	4
3. Dimensions .....	7
4. Piping Diagrams .....	8
5. Wiring Diagrams .....	9
6. Capacity Tables .....	10
7. Electrical Characteristics .....	14
8. Sound Levels .....	15
9. Accessories .....	16

**توجه:**

شرکت تراست حق تغییر مشخصات دستگاه ها را در جهت بهبود و ارتقای کیفیت برای خود محفوظ می دارد.

2015-04

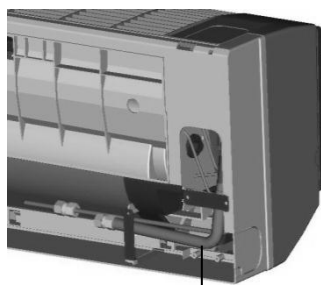
# 1. Features

## 1.1 New panel design, with LED display

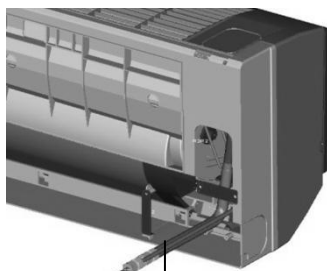


## 1.2 Convenient for installation

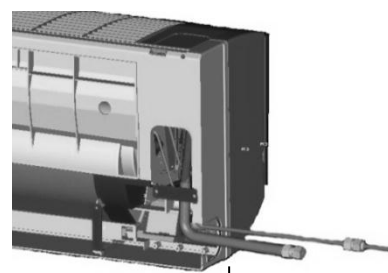
1.2.1 Multi-refrigerant outlet pipe method: left/right/rear, more flexible for installation.



Left



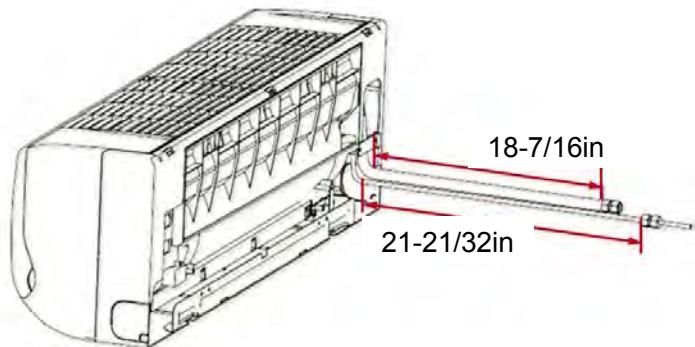
Rear



Right

1.2.2 Longer connection pipe( Gas pipe: 468mm/Liquid pipe: 550mm), more flexible for installation.

1.2.3 Adopts new type fixing plate, easy for installation and stable.



2.2~3.6kw



4.5~5.6kw

- 1.2.4 The EXV is built-in the indoor unit, compact size, and convenient for the installation.
- 1.2.5 The panel assembly of S type indoor unit can be exchanged with C type indoor unit, alternative panel.
- 1.2.6 Reserved socket on main control board for water pump and PCB can be customized if you need water pump function.
- 1.2.7 The front panel can be lifted up to max. 65 degree and be removed and maintain, easy access for wiring and service.

### **1.3 Auxiliary electrical heating type is available.**

### **1.4 Three air flow speed: high/medium/low, double air guides.**

### **1.5 Low noise, creates quiet and comfortable environment.**

- 1.5.1 Adoption of the Fujikoki brand mechanical expansion valve which has 2000 stages element positioning, ensures precise flow control, as well as lower modulation noise when EXV operating.
- 1.5.2 More smooth airflow with less turbulence. Owing to the multiple-blade fan and the air guide design, the airflow is getting smoother and more comfortable
- 1.5.3 Louver's air swing angle can be up to 90°

### **1.6 Wired/wireless controller is available. RM05/BG(T)E-A wireless remote controller is standard ,which can set the indoor units' addresses , and wired controller is optional .**

### **1.7 Auto restart**

When the indoor unit is powered off, it will auto restart when powered on again after 3 minutes and operate in the previous state

## 2. Specifications

Model (TMVW1S)			015/I4RN1S	022/I4RN1S	022E/I4RN1S	028/I4RN1S
Power supply		V-Ph-Hz	220-240V~, 1Ph, 50Hz			
Cooling	Capacity	kW	1.5	2.2	2.2	2.8
	Input	W	28	28	28	28
	Rated current	A	0.12	0.14	0.14	0.14
Heating	Capacity	kW	1.7	2.4	2.4+0.75	3.2
	Input	W	28	28	28	28
	Rated current	A	0.12	0.14	0.14+3.38	0.14
Electrical heating capacity		kW	-	-	0.75	-
Indoor fan motor	Model		YDK9-6A	YDK15-6	YDK15-6	YDK15-6
	Type		AC motor			
	Brand		Welling			
	Input	W	23/21/20	30/24/22	30/24/22	30/24/22
	Capacitor	μF	0.8	1.2	1.2	1.2
	Speed (h/m/l)	r/min	721/678/614	810/760/700	810/760/700	810/760/700
Indoor coil	Number of rows		2	2	2	2
	Tube pitch× row pitch	mm	21×13.37	21×13.37	21×13.37	21×13.37
	Fin spacing	mm	1.5	1.5	1.5	1.5
	Fin type		Hydrophilic aluminum			
	Tube outside diameter and type	mm	Φ7 Inner groove tube			
	Length× height× width	mm	635×315×26.74			
	Number of circuits		2	3	3	3
Indoor air flow (H/M/L)		m <sup>3</sup> /h	427/389/336	525/480/430	525/480/430	525/480/430
Indoor noise level (H/M/L)		dB(A)	33/31/28	35/32/29	35/32/29	35/32/29
Indoor unit	Dimension (W×H×D)		915×230×290	915×230×290	915×230×290	915×230×290
	Packing (W×H×D)		1020×315×390	1020×315×390	1020×315×390	1020×315×390
	Net/Gross weight		12.4/15.9	13/16.8	13.3/17.1	13/16.8
Refrigerant type			R410A			
Throttle		Type	EXV (Mechanical gear modulation, integrated with the evaporator)			
		Model	EFM-25YGMISZ-6M-A			
Design pressure(H/L)		MPa	4.4/2.6			
Refrigerant piping	Liquid side/ Gas side	mm	Φ6.35/ Φ12.7			
Connecting wiring	Power wiring	mm <sup>2</sup>	3×2.5			
	Signal wiring	mm <sup>2</sup>	3×0.75			
Drainage water pipe diameter			ODΦ16.5			
Controller			Wireless remote controller (RM05/BG(T)E-A) (Standard)			

**Notes:** 1. Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, outdoor temperature.:35°CDB,equivalent ref. Piping: 8m(horizontal)

2. Nominal heating capacities are based on the following conditions: return air temperature.: 20°CDB,outdoor temp.: 7°CDB,6°CWB,equivalent ref. Piping: 8m(horizontal)

3. 1.5kW model is only available for V4 plus and MINI VRF system.

## Wall Mounted Type (S Type)

Model			TMVW1S28E/IR4RNS	TMVW1S36/IR4RNS	TMVW1S36E/IR4RNS	TMVW1S45/IR4RNS
Power supply		V- Ph-Hz	220-240V~, 1Ph, 50Hz			
Cooling	Capacity	kW	2.8	3.6	3.6	4.5
	Input	W	28	28	28	45
	Rated current	A	0.14	0.14	0.14	0.2
Heating	Capacity	kW	3.2+0.75	4	4+0.75	5
	Input	W	28	28	28	45
	Rated current	A	0.14+3.38	0.14	0.14+3.38	0.2
Electrical heating capacity		kW	0.75	-	0.75	-
Indoor fan motor	Model		YDK15-6	YDK15-6	YDK15-6	YDK18-4
	Type		AC motor			
	Brand		Welling			
	Input	W	30/24/22	30/24/22	30/24/22	44/42/39
	Capacitor	μF	1.2	1.2	1.2	1.2
	Speed (h/m/l)	r/min	810/760/700	810/760/700	810/760/700	980/880/760
Indoor coil	Number of rows		2	2	2	2
	Tube pitch×row pitch	mm	21×13.37	21×13.37	21×13.37	21×13.37
	Fin spacing	mm	1.5	1.5	1.5	1.5
	Fin type		Hydrophilic aluminum			
	Tube outside diameter and type	mm	Φ7 Inner groove tube			
	Length×height×width	mm	635×315×26.74 785×357×26.74			
	Number of circuits		3	3	3	6
Indoor air flow (H/M/L)		m <sup>3</sup> /h	525/480/430	590/520/480	590/520/480	860/755/630
Indoor noise level (H/M/L)		dB(A)	35/32/29	35/32/29	35/32/29	40/38/34
Indoor unit	Dimension (W×H×D)	mm	915×230×290	915×230×290	915×230×290	1072×230×315
	Packing (W×H×D)	mm	1020×315×390	1020×315×390	1020×315×390	1180×315×415
	Net/Gross weight	kg	13.3/17.1	13/16.8	13.3/17.1	15.1/19.5
Refrigerant type		R410A				
Throttle	Type	EXV (Mechanical gear modulation, Integrated with the evaporator)				
	Model	EFM-25YGMISZ-6M-A				
Design pressure (H/L)		MPa	4.4/2.6			
Refrigerant piping	Liquid side/ Gas side	mm	Φ6.35/ Φ12.7			
Connecting wiring	Power wiring	mm <sup>2</sup>	3×2.5			
	Signal wiring	mm <sup>2</sup>	3×0.75			
Drainage water pipe diameter		ODΦ16.5				
Controller		Wireless remote controller (RM05/BG(T)E-A) (Standard)				

**Notes:** 1. Nominal cooling capacities are based on the following conditions: return air temperature. : 27°CDB, 19°CWB, outdoor temperature.:35°CDB,equivalent ref. Piping: 8m(horizontal)

2. Nominal heating capacities are based on the following conditions: return air temperature.: 20°CDB,outdoor temperature.: 7°CDB,6°CWB,equivalent ref. Piping: 8m(horizontal)

3. 1.5kW model is only available for V4 plus and MINI VRF system.

Model (TMVW1S)			045E/I4RN1S	056/I4RN1S	056E/I4RN1S
Power supply		V- Ph-Hz	220-240V~, 1Ph, 50Hz		
Cooling	Capacity	kW	4.5	5.6	5.6
	Input	W	45	45	45
	Rated current	A	0.2	0.2	0.2
Heating	Capacity	kW	5+0.9	6.3	6.3+0.9
	Input	W	45	45	45
	Rated current	A	0.2+4.05	0.2	0.2+4.05
Electrical heating capacity		kW	0.9	-	0.9
Indoor fan motor	Model		YDK18-4	YDK18-4	YDK18-4
	Type		AC motor		
	Brand		Welling		
	Input	W	44/42/39	44/42/39	44/42/39
	Capacitor	μF	1.2	1.2	1.2
	Speed (h/m/l)	r/min	980/880/760	980/880/760	980/880/760
Indoor coil	Number of rows		2	2	2
	Tube pitch× row pitch	mm	21×13.37	21×13.37	21×13.37
	Fin spacing	mm	1.5	1.5	1.5
	Fin type		Hydrophilic aluminum		
	Tube outside diameter and type	mm	Φ7		
	Length× height× width		785×357×26.74		
	Number of circuits		6	6	6
Indoor air flow (H/M/L)		m <sup>3</sup> /h	860/755/630	925/860/755	925/860/755
Indoor noise level (H/M/L)		dB(A)	40/38/34	40/38/34	40/38/34
Indoor unit	Dimension (W×H×D)	mm	1072×230×315	1072×230×315	1072×230×315
	Packing (W×H×D)	mm	1180×315×415	1180×315×415	1180×315×415
	Net/Gross weight	kg	15.5/19.9	15.1/19.5	15.5/19.9
Refrigerant type			R410A		
Throttle	Type	EXV (Mechanical gear modulation, integrated with the evaporator)			
	Model	EFM-25YGMISZ-6M-A			
Design pressure (H /L)		MPa	4.4/2.6		
Refrigerant piping	Liquid side/ Gas side	mm	Φ6.35/ Φ12.7	Φ9.53/Φ15.9	
Connecting wiring	Power wiring	mm <sup>2</sup>	3×2.5		
	Signal wiring	mm <sup>2</sup>	3×0.75		
Drainage water pipe diameter			ODΦ16.5		
Controller			Wireless remote controller (RM05/BG(T)E-A) (Standard)		

**Notes:** 1. Nominal cooling capacities are based on the following conditions: return air temperature. : 27°CDB, 19°CWB, outdoor temperature.:35°CDB,equivalent ref. Piping: 8m(horizontal)

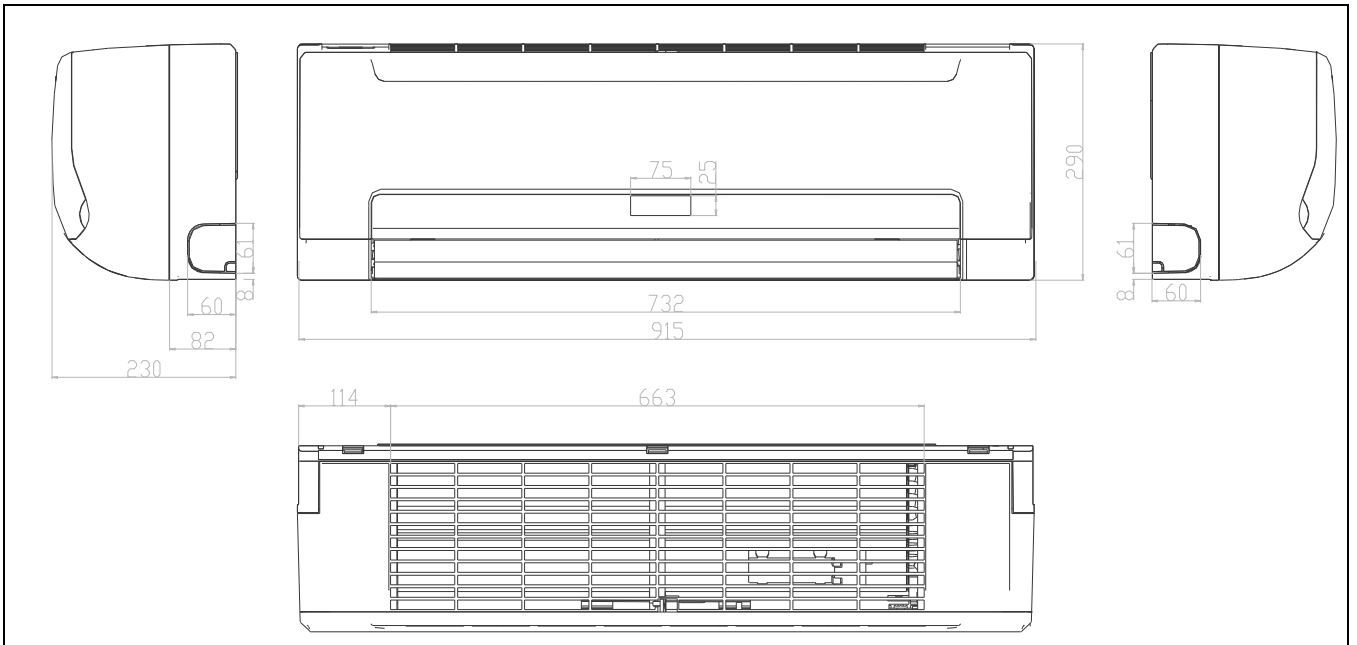
2. Nominal heating capacities are based on the following conditions: return air temperature.: 20°CDB,outdoor temperature.: 7°CDB,6°CWB,equivalent ref. Piping: 8m(horizontal)

3. 1.5kW model is only available for V4 plus and MINI VRF system.

### 3. Dimension

#### Outline dimension and air outlet opening size

TMVW1S015/I4RN1S    TMVW1S022/I4RN1S    TMVW1S028/I4RN1S    TMVW1S036/I4RN1S  
 TMVW1S022E/I4RN1S    TMVW1S028E/I4RN1S    TMVW1S036E/I4RN1S



#### Main dimension:

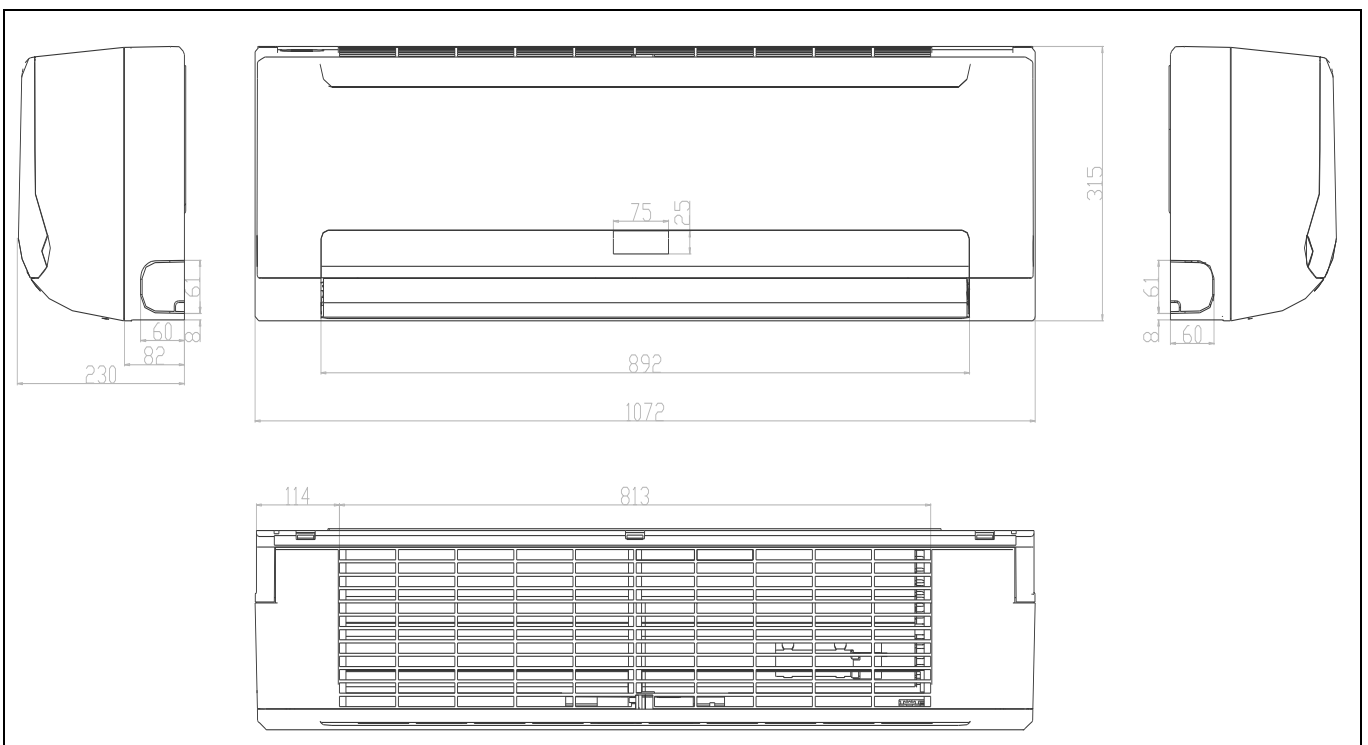
Outer Length: 915mm, Height: 230mm, Depth: 290mm

Filter length: 663mm

Gas tube:  $\phi$ 12.7mm, length: Approx. 468mm

Liquid tube:  $\phi$ 6.35mm, length: Approx. 550mm

TMVW1S045/I4RN1S    TMVW1S056/I4RN1S    TMVW1S045E/I4RN1S    TMVW1S056E/I4RN1S



Outer Length: 1072mm, Height: 230mm, Depth: 315mm

Filter length: 813mm

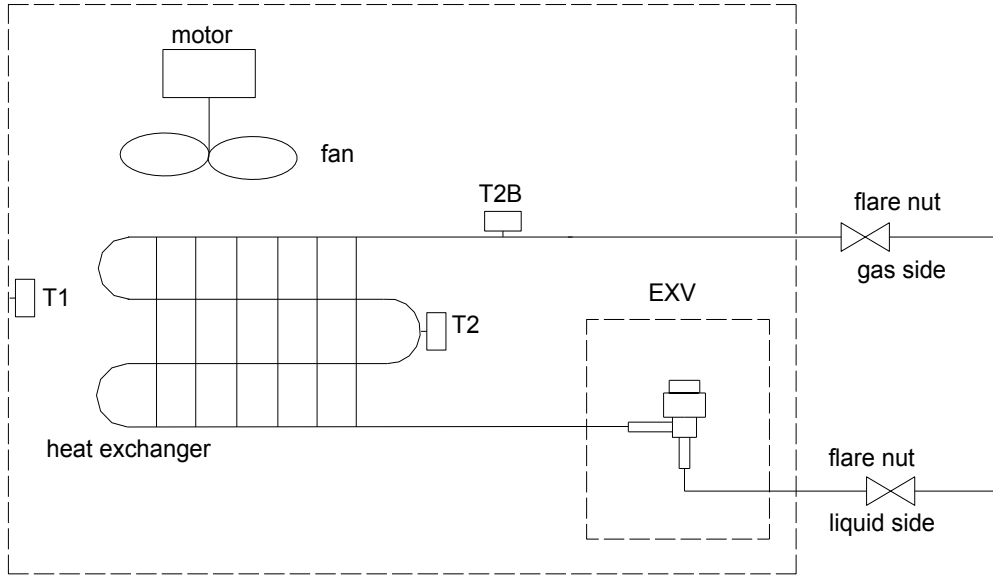
Gas tube:  $\phi$ 12.7mm, length: Approx. 468mm

Liquid tube:  $\phi$ 9.53 length: Approx. 550mm



### 4. Piping Diagrams

TMVW1S015/I4RN1S TMVW1S022/I4RN1S TMVW1S028/I4RN1S TMVW1S036/I4RN1S  
TMVW1S045/I4RN1S TMVW1S056/I4RN1S TMVW1S022E/I4RN1S TMVW1S028E/I4RN1S  
TMVW1S036E/I4RN1S TMVW1S045E/I4RN1S TMVW1S056E/I4RN1S



Wall Mounted Type (S Type)

### 5. Wiring Diagrams

TMVW1S015/I4RN1S TMVW1S022/I4RN1S TMVW1S028/I4RN1S TMVW1S036/I4RN1S TMVW1S045/I4RN1S

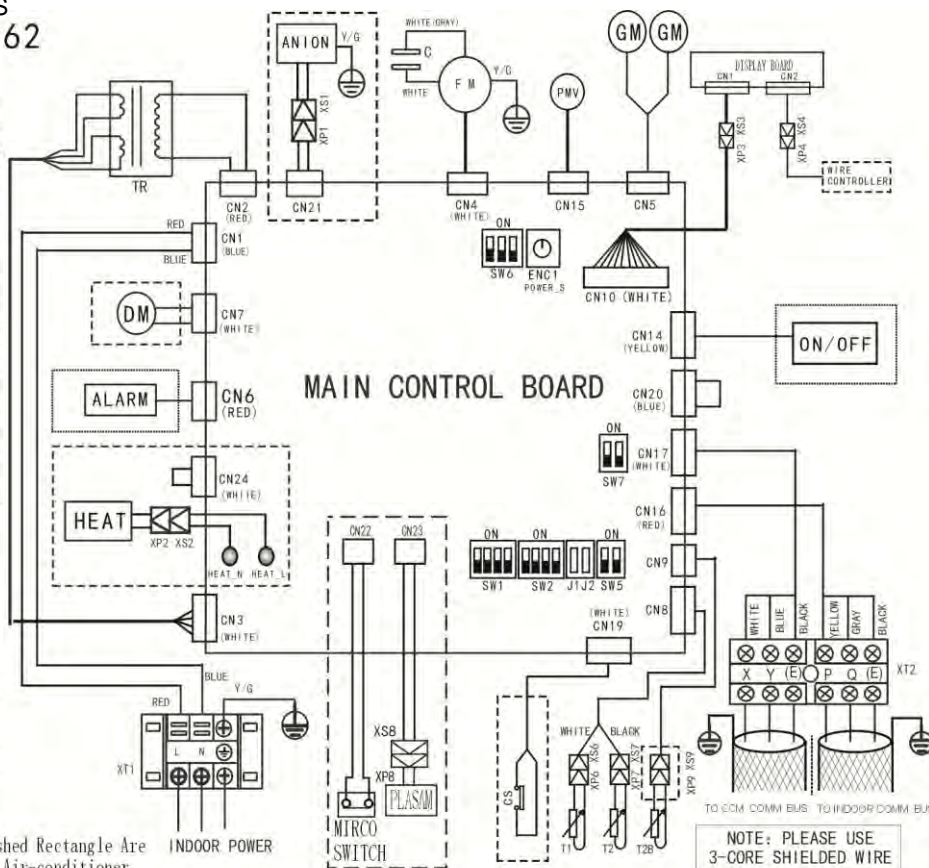
TMVW1S056/I4RN1S TMVW1S022E/I4RN1S TMVW1S028E/I4RN1S TMVW1S036E/I4RN1S MVW1S045E/I4RN1S

TMVW1S056E/I4RN1S

202087090762

CODE	TITLE
FM	INDOOR FAN MOTOR
PMV	PULSE MOTOR EXPANSION VALVE
T1	ROOM TEMP.
T2B	OUTER PIPE TEMP.
T2	MIDDLE PIPE TEMP.
XP1-9 XS1-9	CONNECTOR
C	FAN MOTOR GP.
TR	TRANSFORMER
GM	SWING MOTOR
HEAT	AUXILIARY HEATER
DM	PUMP MOTOR
CS	WATER LEVEL SWITCH
XT1	3-WAY TERMINAL
XT2	6-WAY TERMINAL
ANION	ANION GENERATOR
PLASAM	PLASAM
MIRCO	MIRCO SWITCH

ENC1	SWITCH	(FOR POWER)
NUMBER		POWER
F		1500W (0.6HP)
0		2200W (0.6HP)
1		2800W (1.0HP)
2		3600W (1.2HP)
3		4500W (1.5HP)
4		5600W (2.0HP)



NOTE:

1. The Functions In The Dashed Rectangle Are Available For Particular Air-conditioner.
2. SW1, SW2, SW5-SW7 MUST BE SETTED AS THIS DIAGRAM.

SW1 Difinition

	●1 means factory test mode ●0 means auto addressing mode (default setting)
	●1 means DC fan is chosen ●0 means AC fan is chosen
	●00 means DC fan static pressure is 0 (reserved)
	●01 means DC fan static pressure is 1 (reserved)
	●10 means DC fan static pressure is 2 (reserved)
	●11 means DC fan static pressure is 3 (reserved)

J1J2 Difinition

	● without jumper "J1" for auto restart function
	● with jumper "J1" for non-auto restart function
	● reserved

SW2 Difinition

	●00 means shutting down the unit to "stop cold air" at 15°C
	●01 means shutting down the unit to "stop cold air" at 20°C
	●10 means shutting down the unit to "stop cold air" at 24°C
	●11 means shutting down the unit to "stop cold air" at 26°C
	●00 means the time of stopping THERMAL fan is 4 minutes
	●01 means the time of stopping THERMAL fan is 8 minutes
	●10 means the time of stopping THERMAL fan is 12 minutes
	●11 means the time of stopping THERMAL fan is 16 minutes

SW5 Difinition

	●00 means temp. compensation value is 6°C under heat mode
	●01 means temp. compensation value is 2°C under heat mode
	●10 means temp. compensation value is 4°C under heat mode
	●11 means temp. compensation value is 8°C under heat mode

SW6 Difinition

	●1 means old display penal ●0 means new display penal
	●1 means auto air blow under auto mode ●0 means auto air blow under non-auto mode
	● reserved

SW7 Difinition

	● standard configuration
	● last unit of the network

0/1 Difinition

	● means 0
	● means 1

Note:

1. Power supply of ALARM port is the same with indoor unit. The wire between the alarm port CN6 and alarm element should be customized.
2. ON/OFF port doesn't need power supply. When the port is in short circuit condition, indoor units will stop running and cannot be controlled by the controller. When the port is in disconnect condition, the indoor units will be in normal state. The wire should be customized and within one meter length.

## 6. Capacity Tables

6.1 Cooling TC: total capacity SC: sensible capacity

WB: wet-bulb temperature DB: dry-bulb temperature

Indoor Unit size (kW)	Outdoor temperature (°CDB)	Indoor temperature (°CWB/DB)													
		14/20		16/23		18/26		19/27		20/28		22/30		24/32	
		TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
1.5	10.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.8	1.1	2.0	1.1
	12.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.8	1.1	1.9	1.0
	14.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.8	1.1	1.9	1.0
	16.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.8	1.1	1.9	1.0
	18.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.8	1.1	1.9	1.0
	20.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.8	1.1	1.8	1.0
	21.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.8	1.1	1.8	1.0
	23.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.7	1.0	1.8	1.0
	25.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.7	1.0	1.8	0.9
	27.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.7	1.0	1.8	0.9
	29.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.7	1.0	1.7	0.9
	31.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.7	1.0	1.7	0.9
	33.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.7	1.0	1.7	1.0
	35.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.6	0.9	1.7	1.0
	37.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.6	0.9	1.6	0.9
	39.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.5	1.0	1.6	0.9	1.6	0.9
42.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.5	1.0	1.6	0.9	1.6	0.9	
44.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.5	1.0	1.6	0.9	1.6	0.9	
46.0	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.5	1.0	1.6	0.9	1.6	0.9	
2.2	10.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.6	1.6	2.9	1.5
	12.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.6	1.6	2.8	1.5
	14.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.6	1.6	2.8	1.5
	16.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.6	1.6	2.8	1.5
	18.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.6	1.6	2.8	1.4
	20.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.6	1.6	2.7	1.4
	21.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.6	1.6	2.7	1.4
	23.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.5	1.5	2.7	1.4
	25.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.5	1.5	2.6	1.4
	27.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.5	1.5	2.6	1.4
	29.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.4	1.4	2.5	1.4
	31.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.4	1.4	2.5	1.4
	33.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.4	1.4	2.4	1.4
	35.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.3	1.3	2.4	1.4
	37.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.3	1.3	2.3	1.4
	39.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.2	1.5	2.3	1.3	2.3	1.4
42.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.2	1.5	2.3	1.3	2.3	1.4	
44.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.2	1.5	2.3	1.3	2.3	1.4	
46.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.2	1.5	2.3	1.3	2.3	1.4	
2.8	10.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.3	2.0	3.7	2.0
	12.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.3	2.0	3.6	2.0
	14.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.3	2.0	3.6	2.0
	16.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.3	2.0	3.5	1.9
	18.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.3	2.0	3.5	1.9
	20.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.3	2.0	3.4	1.9
	21.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.3	2.0	3.4	1.9
	23.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.3	2.0	3.4	1.9
	25.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.2	1.9	3.3	1.9
	27.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.2	1.9	3.3	1.9
	29.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.1	1.8	3.2	1.8
	31.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.1	1.8	3.2	1.7
	33.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.1	1.8	3.1	1.7
	35.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	2.9	1.9	3.0	1.8	3.1	1.7
	37.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	2.9	1.9	3.0	1.8	3.0	1.7
	39.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	2.9	1.9	3.0	1.9	3.0	1.7
42.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	2.9	1.9	3.0	1.9	3.0	1.7	
44.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	2.9	1.9	3.0	1.9	3.0	1.7	
46.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	2.9	1.9	3.0	1.9	3.0	1.7	
3.6	10.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.3	2.4	4.7	2.5

Wall Mounted Type (S Type)

	12.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.3	2.4	4.7	2.5
	14.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.3	2.4	4.6	2.4
	16.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.3	2.4	4.5	2.4
	18.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.3	2.4	4.5	2.4
	20.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.3	2.4	4.4	2.3
	21.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.3	2.4	4.4	2.3
	23.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.1	2.3	4.3	2.2
	25.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.1	2.3	4.2	2.2
	27.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.0	2.2	4.2	2.2
	29.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.0	2.2	4.1	2.2
	31.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.2	2.6	4.1	2.2
	33.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.2	2.6	3.9	2.1
	35.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.2	2.6	3.9	2.1
	37.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.7	2.4	3.8	2.3	3.9	2.1
	39.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.7	2.4	3.8	2.3	3.8	2.1
	42.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.7	2.4	3.8	2.3	3.8	2.1
44.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.7	2.4	3.8	2.3	3.8	2.1	
46.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.7	2.4	3.8	2.3	3.8	2.1	
4.5	10.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.3	3.4	5.9	3.0
	12.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.3	3.4	5.9	3.0
	14.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.3	3.4	5.8	3.0
	16.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.3	3.4	5.6	2.9
	18.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.3	3.4	5.7	3.0
	20.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.3	3.4	5.7	3.0
	21.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.3	3.4	5.6	3.0
	23.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.3	3.4	5.5	3.0
	25.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.2	3.0	5.4	2.9
	27.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.1	3.0	5.2	2.8
	29.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.1	2.9	5.2	2.8
	31.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.0	2.9	5.1	2.7
	33.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	4.9	2.8	5.1	2.7
	35.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	4.8	2.8	5.0	2.7
	37.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	4.8	2.9	4.9	2.6
	39.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.6	2.8	4.7	2.8	4.8	2.6
42.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.6	2.8	4.7	2.8	4.8	2.6	
44.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.6	2.8	4.7	2.8	4.8	2.6	
46.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.6	2.8	4.7	3.1	4.8	2.6	
5.6	10.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.6	3.6	7.3	3.5
	12.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.6	3.6	7.2	3.5
	14.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.6	3.6	7.1	3.5
	16.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.6	3.6	7.0	3.4
	18.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.6	3.6	6.8	3.4
	20.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.6	3.6	6.7	3.3
	21.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.6	3.6	6.6	3.3
	23.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.6	3.6	6.6	3.3
	25.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.6	3.6	6.5	3.2
	27.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.4	3.5	6.4	3.2
	29.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.3	3.5	6.4	3.3
	31.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.2	3.4	6.2	3.2
	33.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.2	3.4	6.2	3.2
	35.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.0	3.3	6.0	3.1
	37.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	5.9	3.2	6.0	3.1
	39.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.7	3.4	5.8	3.2	6.0	3.1
42.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.7	3.4	5.8	3.2	6.0	3.1	
44.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.7	3.4	5.8	3.2	6.0	3.1	
46.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.7	3.7	5.8	3.2	6.0	3.1	

**6.2 Heating**
**TC:** total capacity

**WB:** wet-bulb temperature    **DB:** dry-bulb temperature

Indoor Unit size (kW)	Outdoor temperature (°C)		Indoor temperature (°C DB)					
			16.00	18.00	20.00	21.00	22.00	24.00
	WB	DB	TC kW	TC kW	TC kW	TC kW	TC kW	TC kW
1.5	-19.8	-20	0.95	0.95	0.95	0.95	0.95	0.95
	-18.8	-19	1.02	1.02	1.02	1.02	1.02	1.02
	-16.7	-17	1.07	1.07	1.07	1.07	1.07	1.07
	-13.7	-15	1.11	1.11	1.11	1.11	1.11	1.11
	-11.8	-13	1.17	1.17	1.17	1.17	1.17	1.17
	-9.8	-11	1.19	1.21	1.21	1.21	1.21	1.21
	-9.5	-10	1.24	1.24	1.24	1.24	1.24	1.24
	-8.5	-9.1	1.28	1.28	1.28	1.28	1.28	1.28
	-7	-7.6	1.29	1.29	1.29	1.29	1.29	1.29
	-5	-5.6	1.34	1.34	1.34	1.34	1.34	1.34
	-3	-3.7	1.41	1.41	1.41	1.41	1.41	1.41
	0	-0.7	1.51	1.51	1.51	1.51	1.51	1.43
	3	2.2	1.60	1.60	1.60	1.60	1.56	1.43
	5	4.1	1.65	1.65	1.65	1.65	1.56	1.43
	7	6	1.70	1.70	1.70	1.65	1.56	1.43
	9	7.9	1.75	1.75	1.70	1.65	1.56	1.43
11	9.8	1.80	1.80	1.70	1.65	1.56	1.43	
13	11.8	1.87	1.84	1.70	1.65	1.56	1.43	
15	13.7	1.92	1.84	1.70	1.65	1.56	1.43	
2.2	-20	-19.8	1.46	1.46	1.46	1.46	1.46	1.46
	-19	-18.8	1.56	1.56	1.56	1.56	1.56	1.56
	-17	-16.7	1.64	1.64	1.64	1.64	1.64	1.64
	-15	-14.7	1.69	1.69	1.69	1.69	1.69	1.69
	-13.00	-12.60	1.79	1.79	1.79	1.79	1.79	1.79
	-11.00	-10.50	1.82	1.85	1.85	1.85	1.85	1.85
	-10.00	-9.50	1.90	1.90	1.90	1.90	1.90	1.90
	-9.10	-8.50	1.95	1.95	1.95	1.95	1.95	1.95
	-7.60	-7.00	1.98	1.98	1.98	1.98	1.98	1.98
	-5.60	-5.00	2.05	2.05	2.05	2.05	2.05	2.05
	-3.70	-3.00	2.16	2.16	2.16	2.16	2.16	2.16
	-0.70	0.00	2.31	2.31	2.31	2.31	2.31	2.18
	2.20	3.00	2.44	2.44	2.44	2.44	2.39	2.18
	4.10	5.00	2.52	2.52	2.52	2.52	2.39	2.18
	6.00	7.00	2.60	2.60	2.60	2.52	2.39	2.18
	7.90	9.00	2.68	2.68	2.60	2.52	2.39	2.18
9.80	11.00	2.76	2.76	2.60	2.52	2.39	2.18	
11.80	13.00	2.86	2.81	2.60	2.52	2.39	2.18	
13.70	15.00	2.94	2.81	2.60	2.52	2.39	2.18	
2.8	-20	-19.8	1.79	1.79	1.79	1.79	1.79	1.79
	-19	-18.8	1.92	1.92	1.92	1.92	1.92	1.92
	-17	-16.7	2.02	2.02	2.02	2.02	2.02	2.02
	-15	-14.7	2.02	2.02	2.02	2.02	2.02	2.02
	-13.00	-12.60	2.14	2.14	2.14	2.14	2.14	2.14
	-11.00	-10.50	2.24	2.24	2.24	2.24	2.24	2.24
	-10.00	-9.50	2.34	2.34	2.34	2.34	2.34	2.34
	-9.10	-8.50	2.40	2.40	2.40	2.40	2.40	2.40
	-7.60	-7.00	2.43	2.43	2.43	2.43	2.43	2.43
	-5.60	-5.00	2.53	2.53	2.53	2.53	2.53	2.53
	-3.70	-3.00	2.66	2.66	2.66	2.66	2.66	2.66
	-0.70	0.00	2.85	2.85	2.85	2.85	2.85	2.69
	2.20	3.00	3.01	3.01	3.01	3.01	2.94	2.69
	4.10	5.00	3.10	3.10	3.10	3.10	2.94	2.69
	6.00	7.00	3.20	3.20	3.20	3.10	2.94	2.69
	7.90	9.00	3.30	3.30	3.20	3.10	2.94	2.69
9.80	11.00	3.39	3.39	3.20	3.10	2.94	2.69	
11.80	13.00	3.52	3.46	3.20	3.10	2.94	2.69	
13.70	15.00	3.62	3.46	3.20	3.10	2.94	2.69	
3.6	-20	-19.8	2.24	2.24	2.24	2.24	2.24	2.24
	-19	-18.8	2.40	2.40	2.40	2.40	2.40	2.40



Wall Mounted Type (S Type)

	-17	-16.7	2.52	2.52	2.52	2.52	2.52	2.52
	-15	-14.7	2.60	2.60	2.60	2.60	2.60	2.60
	-13.00	-12.60	2.68	2.68	2.68	2.68	2.68	2.68
	-11.00	-10.50	2.80	2.80	2.80	2.80	2.80	2.80
	-10.00	-9.50	2.92	2.92	2.92	2.92	2.92	2.92
	-9.10	-8.50	3.00	3.00	3.00	3.00	3.00	3.00
	-7.60	-7.00	3.04	3.04	3.04	3.04	3.04	3.04
	-5.60	-5.00	3.16	3.16	3.16	3.16	3.16	3.16
	-3.70	-3.00	3.32	3.32	3.32	3.32	3.32	3.32
	-0.70	0.00	3.56	3.56	3.56	3.56	3.56	3.36
	2.20	3.00	3.76	3.76	3.76	3.76	3.68	3.36
	4.10	5.00	3.88	3.88	3.88	3.88	3.68	3.36
	6.00	7.00	4.00	4.00	4.00	3.88	3.68	3.36
	7.90	9.00	4.12	4.12	4.00	3.88	3.68	3.36
	9.80	11.00	4.24	4.24	4.00	3.88	3.68	3.36
	11.80	13.00	4.40	4.32	4.00	3.88	3.68	3.36
13.70	15.00	4.52	4.32	4.00	3.88	3.68	3.36	
4.5	-20	-19.8	2.80	2.80	2.80	2.80	2.80	2.80
	-19	-18.8	3.00	3.00	3.00	3.00	3.00	3.00
	-17	-16.7	3.15	3.15	3.15	3.15	3.15	3.15
	-15	-14.7	3.25	3.25	3.25	3.25	3.25	3.25
	-13.00	-12.60	3.35	3.35	3.35	3.35	3.35	3.35
	-11.00	-10.50	3.50	3.50	3.50	3.50	3.50	3.50
	-10.00	-9.50	3.65	3.65	3.65	3.65	3.65	3.65
	-9.10	-8.50	3.75	3.75	3.75	3.75	3.75	3.75
	-7.60	-7.00	3.80	3.80	3.80	3.80	3.80	3.80
	-5.60	-5.00	3.95	3.95	3.95	3.95	3.95	3.95
	-3.70	-3.00	4.15	4.15	4.15	4.15	4.15	4.15
	-0.70	0.00	4.45	4.45	4.45	4.45	4.45	4.20
	2.20	3.00	4.70	4.70	4.70	4.70	4.60	4.20
	4.10	5.00	4.85	4.85	4.85	4.85	4.60	4.20
	6.00	7.00	5.00	5.00	5.00	4.85	4.60	4.20
	7.90	9.00	5.15	5.15	5.00	4.85	4.60	4.20
9.80	11.00	5.30	5.30	5.00	4.85	4.60	4.20	
11.80	13.00	5.50	5.40	5.00	4.85	4.60	4.20	
13.70	15.00	5.65	5.40	5.00	4.85	4.60	4.20	
5.6	-20	-19.8	3.53	3.53	3.53	3.53	3.53	3.53
	-19	-18.8	3.78	3.78	3.78	3.78	3.78	3.78
	-17	-16.7	3.97	3.97	3.97	3.97	3.97	3.97
	-15	-14.7	4.10	4.10	4.10	4.10	4.10	4.10
	-13.00	-12.60	4.22	4.22	4.22	4.22	4.22	4.22
	-11.00	-10.50	4.41	4.41	4.41	4.41	4.41	4.41
	-10.00	-9.50	4.60	4.60	4.60	4.60	4.60	4.60
	-9.10	-8.50	4.73	4.73	4.73	4.73	4.73	4.73
	-7.60	-7.00	4.79	4.79	4.79	4.79	4.79	4.79
	-5.60	-5.00	4.98	4.98	4.98	4.98	4.98	4.98
	-3.70	-3.00	5.23	5.23	5.23	5.23	5.23	5.23
	-0.70	0.00	5.61	5.61	5.61	5.61	5.61	5.29
	2.20	3.00	5.92	5.92	5.92	5.92	5.80	5.29
	4.10	5.00	6.11	6.11	6.11	6.11	5.80	5.29
	6.00	7.00	6.30	6.30	6.30	6.11	5.80	5.29
	7.90	9.00	6.49	6.49	6.30	6.11	5.80	5.29
9.80	11.00	6.68	6.68	6.30	6.11	5.80	5.29	
11.80	13.00	6.93	6.80	6.30	6.11	5.80	5.29	
13.70	15.00	7.12	6.80	6.30	6.11	5.80	5.29	

**Note:** The above table is only the heat pump heating capacity, for the type with Electrical heater, the total capacity should plus the additional electrical heating capacity, which is a constant data.

## 7. Electrical Characteristics

Model	Indoor Unit				Power Supply		IFM	
	Hz	Voltage	Min.	Max.	MCA	MFA	KW	FLA
TMVW1S015/I4RN1S	50	220-240	198	254	0.125	5	0.009	0.1
TMVW1S022/I4RN1S	50	220-240	198	254	0.3	5	0.013	0.225
TMVW1S028/I4RN1S	50	220-240	198	254	0.3	5	0.013	0.225
TMVW1S036/I4RN1S	50	220-240	198	254	0.3	5	0.013	0.225
TMVW1S045/I4RN1S	50	220-240	198	254	0.3	5	0.028	0.24
TMVW1S056/I4RN1S	50	220-240	198	254	0.3	5	0.028	0.24
TMVW1S022E/I4RN1S	50	220-240	198	254	3.6	5	0.013	0.225
TMVW1S028E/I4RN1S	50	220-240	198	254	3.6	5	0.013	0.225
TMVW1S036E/I4RN1S	50	220-240	198	254	3.6	5	0.013	0.225
TMVW1S045E/I4RN1S	50	220-240	198	254	4.3	5	0.028	0.24
TMVW1S056E/I4RN1S	50	220-240	198	254	4.3	5	0.028	0.24

**Remark:**

MCA: Min. Current Amps. (A)

MFA: Max. Fuse Amps. (A)

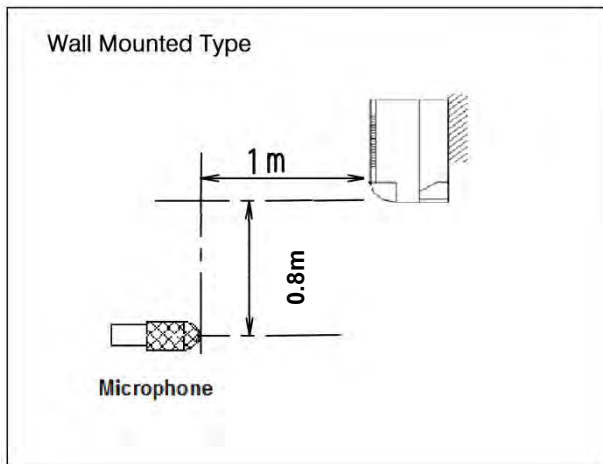
KW: Fan Motor Rated Output (kW)

FLA: Full Load Amps. (A)

IFM:Indoor Fan Motor

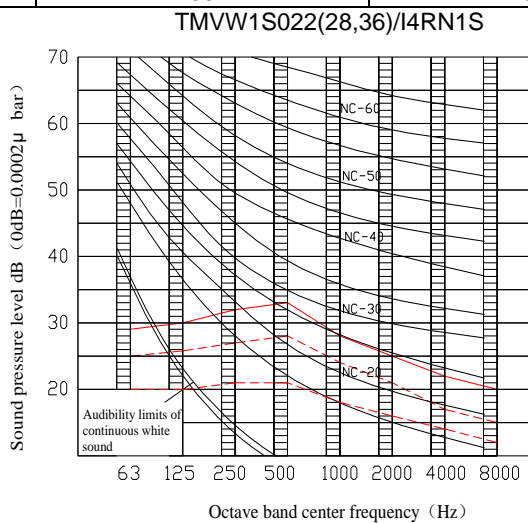
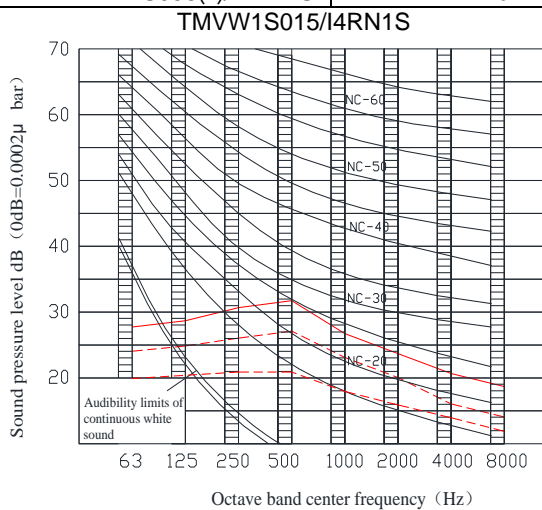
## 8. Sound Levels

### 8.1 Test condition

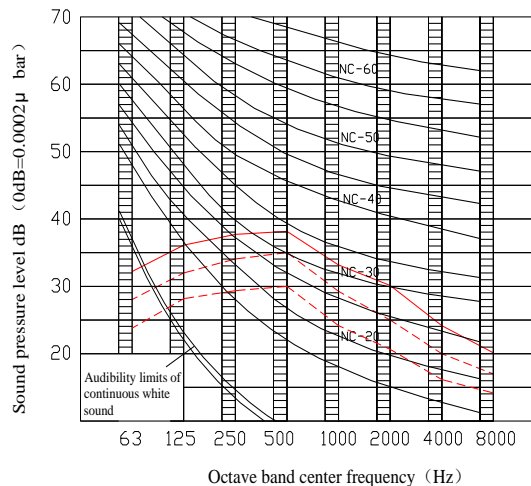


### 8.2 Test value

Model	Sound test value dB(A)		
	H	M	L
TMVW1S015/I4RN1S	33	31	28
TMVW1S022(E)/I4RN1S	35	32	29
TMVW1S028(E)/I4RN1S	35	32	29
TMVW1S036(E)/I4RN1S	35	32	29
TMVW1S045(E)/I4RN1S	40	38	34
TMVW1S056(E)/I4RN1S	40	38	34















TMVW1S045(E)/I4RN1S TMVW1S056(E)/I4RN1S





## 9. Accessories

### 9.1 Standard accessories

Name	Quantity	Shape	Usage
Installation manual	1	/	/
Pipe insulation material	2		Heat insulation
Remote controller	1		/
7# alkaline battery	2		/
Holder for remote controller	1		Hold the remote controller
Remoter controller manual	1		/
Mounting screw(ST2.9 10-C-H)	2		Installation Holder for remote controller
Controlling discreteness installation plot	1	/	/
Installation spring	2		Fix water outlet
Water outlet joint	1		For drainage
Wrapping tape	1		/
Plastic expanded tube	3		/
Screw ST3.9×25 for installation board	3		Secure the installation board
Network matching wire	1		The indoor unit which at the terminal of communication system should connect a impedance between port P and port Q.

### 9.2 Optional accessories

Name	Model	Code	Usage
Wired controller	<b>KJR-10B/DP(T)-E</b>	<b>203355190000</b>	With a standard 5m long cable to connect to display board.
(Follow me) Wired controller	<b>KJR-12B/DP(T)-E</b>	<b>203355100010</b>	With an extra Built-in room temperature sensor, all others are same as KJR-10B
Touch-style Key Wired Controller	<b>KJR-29B/BK-E</b>	<b>203355100699</b>	Air filter cleaning remind function, Follow me function, Indoor unit address setting function



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برند برتر در اولین جشنواره بین المللی  
برترین نام و نشان های تجاری ایران

